

NARRATIVE

VISUAL

Submission #	Title	Narrative	Visual	Accepted?	Theme	NARRATIVE COMMENTS	Significance	Facilities	External Collaborations	Postdocs & Students	3 references	web page/link	VISUAL comments	Opening Statement	Template	List of collaborators	Readability as stand-alone
2	Mechanism of High-Temperature Superconductivity	BSCCO: PCT.doc	BSCCO: PCT.ppt	No	superconductivity		OK	None	not mentionend separat	Not listed	yes	none		none	ok	yes	An opening statement would be helpful
16	Mesoscopic Superconductivity	Mesoscopic.cSC.doc	Mesoscopic.cSC.ppt	No	superconductivity	reference to figures should be omitted	ok	None	not mentionend separately	yes	yes	none	text to small, no fig. captions	yes	ok	externals are not mentioned	yes
17	Crystal Chemistry of the Superconductor MgB2	MgB2 chemistry.doc	MgB2 composition.ppt	No	superconductivity		ok	none	not mentionend separately	not listed	yes	none		yes	ok	externals are not mentioned	yes
18	Two-Band Superconductivity in Pure and Doped MgB2	MgB2 Two-Band.doc	MgB2 Two-Band.ppt	No	superconductivity		ok	none	none	yes	yes	none		none	ok	yes	yes
29	Scanning Tunneling Microscopy of Superconductors	STMnSC.doc	STMnSC.ppt	No	superconductivity		ok	not listed separately ATLAS	not mentionend separat	none	yes	none	text is too small	none	ok	yes	yes
30	Time-reversal symmetry breaking in high-TC superconductors	TBreak_highlight5.doc	TBreak_highlight4.ppt	No	superconductivity/theory		ok	not listed separately	not mentionend separately	yes	yes	none		yes	non standard template	none	yes
32	Theory of Unusual Metal-Insulator Transition in Layered High-Tc Cuprates	Unusual Metal-Insulator.doc	??	No	superconductivity/theory		ok	none	not listed	none	too many ref. without listing them		Visual is missing				
33	The Phase Diagram of Vortex Matter	Vortex Phase Diagram.doc	Vortex Phase Diagram.ppt	No	superconductivity		ok	none	ok	ok	yes	none	remove figure numbers	none	non standard template	none	yes
43	Texture evolution and crystallography in YBa2Cu3Ox coated conductors based on inclined substrate deposition architectures	ISD highlight narrative.doc	ISD highlight visual.ppt	No	Superconductivity		ok	EMC	not listed separately	none	yes	none		yes	non standard template	none	yes
55	INTERGRAIN JC INCREASES IN YBCO TAPES WITH ELEVATED TEMPERATURE PROTON IRRADIATION	YBCO hilite1.doc	YBCO hilite3.ppt		Superconductivity		ok	EMC	ok	none	yes	none		ok	non standard template	not listed	yes
8	Periodic and Disordered Structures in Modulated Gas-Driven Granular Layers	fbud: highlight.doc	fbud: highlight.ppt	ok	soft / granular material		ok	not listed separately	not listed separately	yes	yes	none		ok	ok	ok	yes
13	Evolution of Laterally Ordered Water Structures on Electrode	HYou-Highlight2003.doc	HYou-Highlight2003.ppt	No	soft matter??		ok	not listed separately APS	none	yes	yes	none		none	non standard template	none	yes
20	Dynamics of Monolayer Nanocrystal Self-assembling Process in Liquid Film	Monolayer Nanocrystal.doc	Monolayer Nanocrystal.ppt	ok	soft matter		ok	not listed separately APS	yes	none	yes	none		yes	yes	yes	yes
26	Dynamic Self-Assembly and Patterns in Electrostatically Driven Microparticles	self: highlight.doc	self: highlight.ppt	ok	Soft matter		ok	none	none	yes	yes	yes		yes	yes	yes	yes
45	Ordering of a liquid at a solid interface	Liquid Xe in Al.doc	Liquid Xe in Al.ppt	No	Microscopy/ Soft Matter (liquid ordering)		ok	none	not listed separately	none	yes	none		yes	non standard template	none	yes
46	Self-Assembled 2D Protein Crystals as Templates for Creating Ordered Metallic Nano-Arrays	NanoArray highlight: NIZ.doc	NanoArray nTemplate.ppt	No	Self Assembly Soft Matter (bio)		ok	none	not listed separately	none	yes	none	the visual includes a second narrative	yes	non standard template	yes	yes
50	Self Assembly – From Molecules to Photoluminescent Cables	Self-Assembly-HHWHhighlighty03.doc	Self-Assembly-HHWHhighlighty03.ppt	ok	Self-assembly Soft Matter (diblock copolymers)		ok	not listed separately IPNS	not listed separately	yes	yes	none		yes	yes	yes	yes
21	Materials Theory Institute: Transport in Quantum Wires and Related Effects	MTI Transport.doc	MTI Transport.ppt	No	theory and simulations	9 pt font too small, text	ok, but could you be more specific	none	not listed separately	none	yes	none	undefined abbreviation SC	yes	non standard template	yes	yes

5	Integration of Novel Cu-Based Electrode for (BaSr1-x)TiO3 Thin Film Devices	Cu-electrode website.doc	Cu-electrode website.ppt	No	Ferroelectrics complex oxides?		OK	None	No names, not even internal performers	None	None	none	no significance statement, too crowded, otherwise good	no	OK	Yes	OK
48	Surface Structure of Ferroelectric Thin Films	PTO_Surface_Highlight_Final.doc	PTO_Surface_Graphic_Final.ppt	yes	Ferroelectrics		OK	APS	C. Thompson	no	1 ref	none	OK	OK	put performers/collab or in the footer area	yes	yes
1	Template Synthesis of Novel Nanostructures	AAO_Hilite_Word.doc	AAO_Hilite_Visual.ppt	No	complex oxides	Achievemnets more concise	Significance need to be expanded	EMC	None	Not listed	none	none	figures numbered and referenced in text (not stand-alone)	no	OK	no collab/ no performere	no
28	Measurement of the width of SiO2 barrier layers in microelectronic devices	SiO2width.doc	SiO2width.ppt	yes	complex oxides		Significance needs to be expanded	EMC	None	None	Yes	none	OK	OK	OK	no	OK
31	Development of Hybrid TiAlOx Layer as Alternative High-k Gate Oxide	TiAlOx_Gate_website.doc	TiAlOx_Gate_website.ppt	No	complex oxides		OK	None	Yes	No	None	none	Slide too busy, Figure legends too small, margins, external collab in visual not included	OK	use proper template with correct margins	No	OK
6	Development of Carbon Based Nanostructures	EMC_highlight.doc	EMC_highlight.pics.ppt	No	Carbon/Diamond related		OK	None	Yes	None	Yes	None	Significance in the visual missing, remove FWP, include collaborators	no	NO	no	no
12	Low temperature deposition of UNCD (LT-UNCD)	Highlight-LT.doc	highlight-LTUNCD.ppt	No	Carbon/Diamond related		OK	None	No names, not even internal performers	None	None	none	No collaborators, legends too small on the graphs	no	OK	no collab/performers	ok
22	CARBON NANOTUBES WITH HIGH REACTIVE SURFACE	Nanotubes_ST.doc	Nanotubes_highlight.ppt	yes	Carbon/Diamond related		OK	None	Yes	None	None	None	Slide layout should conform to standards (authors and collaborators)	no	collaborators/performers in the footer	OK	OK
37	Fluctuation Microscopy Studies of Amorphous Diamond-like Carbon Films	Fluctuation_Microscopy_of aQ.doc	Fluctuation_Microscopy_of aQ.ppt	No	Carbon/diamond related? New Materials Microscopy		OK	EMC	Yes	None	None	None	Remove FWP, put collaborators/performers in the footer	OK	No	Yes	OK
38	CARBON NANOTUBES WITH HIGH REACTIVE SURFACE	FV/Nanotubes_ST.doc	FV/Nanotubes_ST_Visual.ppt	No	Carbon/diamond related (CNT) Surface modification	SAME AS #22							same as #22				
34	Single Ion Impacts on Gold	MISSING!	Crater to Nanoparticles.ppt	No	Surface Modification/ Irradiation Damage Microscopy Center? Study of Defects	MISSING		EMC					MISSING				
35	Electron Microscopy of Individual Nanometer-sized Defects	Defect_TEM1.doc	Defect_TEM2.ppt	No	Study of Defects Microscopy	Background should be incorporated into achievement	OK	EMC	Yes	None	None	None	Emphasize significance, include collaborators	no	remove FWP, performers/collab in the footer	no	yes
36	Measurement of Diffuse Electron Scattering by Single Nanometer-sized Defects	Diffuse_Hilite.doc	Diff_Hilite4.ppt	No	Study of Defects Microscopy	Figures the same as #35!	OK	EMC	Yes	None	None	None	SAME FIGURES AS in #35, remove FWP	no	performers and collaborators in the footer	yes	yes
39	Measurements of Atomic Scale Order/Disordering using HARECKS	HARECKS_Highlight_NJZ.doc	HARECKS_Template.ppt	yes	Defects Microscopy		OK	EMC	Yes	None	None	none	Remove FWP	yes	performers and collaborators in the footer	yes	yes
41	CONTRIBUTION OF INELASTICALLY SCATTERED ELECTRONS TO DEFECT IMAGES.	Inel_hilite1.doc	Inel_hilite3.ppt	No	Defects Microscopy SAME FIGURES IN SLIDES!!! SAME INTRO TEXT!!!	SAME FIGURES AND TEXT AS IN OTHER EMC SLIDES	OK	EMC	Yes	None	none	none		no	performers in the footer, remove FWP	yes	yes
52	SINGLE ION IMPACTS: CRATERS AND NANOPARTICLE EJECTION	Single Ion_Impacts.doc	Single Ion_Impacts.ppt	No	Defects		OK	EMC	Yes	None	6, Limit to 3	none	Use proper template!	OK	No	No	OK
53	In situ study of Irradiation-Enhanced diffusion in Nonproliferation Reactor Fuels	U Mo - AI_diffusion.doc	U Mo - AI_diffusion.ppt	yes	Microscopy Structural analysis Defect Studies (irradiation enhanced diffusion)? ION IRRADIATION		OK	None	None	None	None	None		Yes	Performer according to the template	No	Yes
54	SIMULATIONS OF IMAGES OF DEFECTS UNDER WEAK-BEAM DIFFRACTION CONDITIONS	WB_Hilite1.doc	WB_Hilite3.ppt	no	Defect Studies Microscopy	Parts of Text coincide with #35, Background should be incorporated into achievement	OK	EMC	Yes	None	None	none	SAME FIGURES AS in #35	No	remove FWP, performers/collab in the footer	yes	yes

3	Metallic A-type Antiferromagnetic State in a Layered Manganite	CMR_54%_99c	CMR_54%_99c	No	magnetism		OK	None	None	yes	Yes (1)	None	Need Significance	No	Yes	None	No
4	Control of Spins Using Tailored Oxide Structures	Cobaltite.doc	Cobaltite.ppt	Yes	magnetism	shorten to one page by deleting space at end	OK	IPNS	Yes	None	None	None	Need Significance	No	Yes	Yes	No
7	Coupling of Ferromagnets and anti-Ferromagnets	exch_bias.doc	Exch_bias.ppt	Yes	magnetism		OK	None	Yes	Yes	None	none	OK	Yes	Yes	Yes	Yes
9	Magnetic domain structure of the magnetic semiconductor Ga1-xMnxAs	GaMnAs_highlight.doc	GaMnAs_highlight.ppt	No	magnetism	Need to update reference	OK	None	Yes	Yes	Yes (1)	none		Yes	Yes	Yes	Yes
10	Interpenetrating Lattices in KMnAg3(CN)6	GeiserHighlight.doc	GeiserHighlightVisual.ppt	Yes	magnetism		OK	None	None	None	Yes	none		Yes	Yes	Yes	Yes
11	Thermodynamics of Layered Manganites	HeatCapacity.doc	HeatCap.ppt	No	magnetism		OK	None	None	Yes	None	none	Need Significance & some backgroud info	No	Yes	Yes	No
14	Charting the Roadmap for Layered Manganite Physics	LayeredManganite.doc	LayeredManganite.ppt	Yes	magnetism		OK	IPNS	Yes	Yes	None	None		Yes	Yes	Yes	Yes
15	Structural and magnetic roughness in multilayers	magnetic_roughness.doc	magnetic_roughness.ppt	No	magnetism	Mention IPNS? Fix formatting of paragraphs	OK	IPNS?	Yes	Yes	None	none		Yes	Yes	Yes	Yes
23	Nanoscale Orbital Stripes in CMR Manganites	Orbital_stripes_Highlight.doc	orbital_stripes_highlight.ppt	No	magnetism	Fix formatting	OK	IPNS, APS	Yes	Yes	Yes	None	List MSD performers and External Collaborators	Yes	Yes	None	Yes
24	Collapse of electron-lattice polarons in colossal magnetoresistive manganites.	polarons_highlight.doc	polarons_highlight.ppt	No	magnetism	Fix formatting	OK	IPNS, APS	Yes	Yes	Yes	None	List MSD performers and External Collaborators	Yes	Yes	None	Yes
25	Quantum Critical Point in Doped Manganites?	QCP.doc	QCP.ppt	No	magnetism	shorten to one page by deleting space at end	OK	None	Yes	Yes	None	none	Need Significance & some backgroud info	No	Yes	Yes	No
27	Spin-echo resolved grazing incidence neutron scattering (SERGIS)	SERGIS.doc	Sergis_Visual.ppt03	No	magnetism	need more text?	OK	IPNS	Yes	None	None	none		Yes	Yes	Yes	Yes
40	Self-Assembled Magnetic Nanostructures via MBE Growth	Highlight03.doc	Highlight03.ppt	Yes	Magnetism		OK	None	Yes	Yes	None	none		Yes	Yes	Yes	Yes
44	Momentum-resolved Electron Energy-Loss Spectroscopy as a Magnetic Anisotropy Probe	Jto_MREELS_text.doc	Jto_MREELS_visual.ppt	No	Magnetism	remove FWP number	OK	EMC?	Yes	Yes	Yes	none	Remove FWP number	Yes	Yes	Yes	Yes
47	Measurements of Magnetic Field Distributions on NanoScale Dimensions using Position Resolved Diffraction.	PRDHighlight-NJZ.doc	PRDInTemplate.ppt	No	Magnetism Microscopy	remove FWP number	OK	None	Yes	None	None	none	Formating, text size, remove FWP number	Yes	Yes	Yes	Yes
48	Two-Band Superconductivity in Pure and Doped MgB2	MgB2_Two_Band.doc	MgB2_Two_Band.ppt	Yes	superconductivity		OK	None	Yes	Yes	Yes	none		Yes	Yes	Yes	Yes
42	Thermal Stability of Mg-Zn- rare earth Icosahedral Quasicrystals	JQC_highlight-DJM2.doc	JQCs_highlight_visual3.ppt	No	Microscopy New Materials?	remove FWP number	OK	None	Yes	None	None	none	Remove FWP number	Yes	Yes	Yes	Yes
49	The Scanning Confocal Electron Microscope	SCEMHighlight-NJZ.doc	SCEMInTemplate.ppt	No	Microscopy Instrumentation Development?	ADD R&D100 Award info, remove FWP number	OK	EMC	None	None	None	None	ADD R&D100 Award info, remove FWP number, formatting of text	Yes	Yes	Yes	Yes
51	Annealing of Isolated Amorphous Zones in Silicon	Si-a-zone_Annealing.doc	Si-a-zone_annealing.ppt	No	structural characterization microscopy	remove FWP number	OK	EMC	Yes	None	Yes (1)	none	Remove FWP number	Yes	Yes	Yes	Yes
56	Nanoporous Material Synthesis with Atomic Level Control!	AlDofAAO.doc	ALD of AAO.ppt	Yes	Synthesis?	minor formatting corrections	OK	None	None	Yes	None	none		Yes	Yes	Yes	Yes
57	Growth Mechanisms of Ultrananocrystalline Diamond	growthmechanism.doc	growthhighlight.ppt	No	Carbon/Diamond related (Theory, Modeling)	minor formatting corrections	OK	Beowulf???	None	Yes	None	none	Add performers, postdoc, facilities	No	Yes	None	No
58	UNCD Related Carbon Nanocomposites	Highlight_Carbon_nanocomposite.doc	highlight_carbon_nanocomposite.ppt	Yes	Carbon/Diamond related	minor formating, change title	OK	EMC, ALS	Yes	Yes	None	none	change title	Yes	Yes	Yes	Yes

55	Designing Intermediate-Range Order in Amorphous Materials	lennox_narrative.doc	lennox_visual.ppt	No	Soft Materials	No figure refs! Shorten to one page	OK	None	Yes	None	Yes	none	No figure refs! Add statement of purpose	No	Yes	Yes	No
60	Technetium is made in stars!	TcinStars.doc	TcinStarsreviewhighlight.ppt	No	Instrumentation?	shorter than most	OK	None	Yes	Yes	None	none	Minor formatting changes needed	Yes	Yes	Yes	Yes
61	COMPUTATIONAL STUDIES OF CATECHOL AND WATER INTERACTIONS WITH TITANIUM OXIDE NANOPARTICLES	lfc2highlight.doc	lfc2highlight.ppt	No	theory and simulations	Performers? Facilities? Minor formatting	OK	Beowulf???	None	None	None	none	Add performers, statement of purpose	No	Yes	None	No
62	Organization of Natural Molecular Machines in Soft Nanostructures	UofChighlightMAF.doc	UofChighlightMAF1.ppt	Yes	Soft Materials		OK	APS?	None	Yes	None	none		Yes	Yes	Yes	Yes